

**Prairie View A&M University
Chemical Engineering Department
Industrial Advisory Council**

Meeting Minutes

31 January 2020

Meeting called to order at 13:20 CDT by Yao Ababio

Attending:

Name	Organization	Phone
Ken Walter	Retired Consulting Engineer	281-292-3623
Cordelia Price	Retired Consulting Engineer	713-594-6364
Michael Washington	Arkema, Inc	201-254-0213
Vic Edwards	VHE Technical Analysis, LC	713-724-0406
Yao Ababio	BSLMC/YAB Solution	281-704-7455

Absent:

Freeman Self	Bechtel	713-526-9172
Caryn Davis	Bechtel	832-723-4334

Faculty in Attendance:

Dr. Osborne-Lee	PVAMU Chemical Engineering	936-261-9406
Dr. Sheena Reeves	PVAMU Chemical Engineering	
Dr. Safwat Shakir	PVAMU Chemical Engineering	832-250-9419
Dr. Kazeem Olanrewaju	PVAMU Chemical Engineering	319-594-1861
Dr. Michael Gyamerah	PVAMU Chemical Engineering (HoD)	281-746-0480
Dr. Lealon Martin	PVAMU Chemical Engineering	
Dr. Emmanuel Dada	PVAMU Chemical Engineering	215-850-1883
Dr. Keisha Antione	PVAMU Chemical Engineering	
Dr. Nabila Shamim	PVAMU Chemical Engineering	806-252-2522

Students in Attendance (Mixed Session):

Mahmoud Soliman	Zeshan Rizvi	Fina Donald
Dorinda Ntim	Mano Lumueno	Veronica Williams
Ozoemera Angaegbu	Adekunle Ajike	Michael Aliado
Nigel Brooks	Ariel Taylor	Collins R Ogogor

Previous meeting minutes were reviewed and accepted with necessary corrections.

Departmental Updates:

Faculty:

- Ten on roll, with two non-tenure track positions with one being considered for tenure-track in the Fall. Hopefully, all will be tenured by Fall 2021
- Dean encourages all courses be taught in all semesters starting Fall 2020. Department needs faculty number increase to justify
- Student numbers (currently 221) also needed to justify

Curriculum:

- Computations Course for Freshmen (2nd Semester) introduced to replace ELEG 1043. Becomes pre-requisite for CHEG 2053 Chem Eng Lab 1
- Material and Energy Balance becomes pre-requisite to Chemical Engineering Thermo 1
- Results in 131 credit hours to graduate
- IAC support needed to beef up project management skills in Senior Design class, may be under professional development and ethics

Staff:

- New Administrative Assistant - Ms. Charlesedder Love

Laboratory:

- New Laboratory Manager in person of Ms. Sachie Etherington
- Better student experiences noted
- Better safety experiences
- Two rooms in the Greaux Building returned to dept for research lab space
- New lab equipment from Edibon to be installed. Equipment includes CSTR, Gas Adsorption, LL Extractor and other Units ops, centrifugal pumps, etc.

Senior Design:

ABET: SACS visit due 2021

Alumni:

Interaction with Current Students:

- A review of meeting with students as summarized by Dr. Ken Walter and Michael Washington, and in the presence of Dr. Vic Edwards, Ms. Cordelia Price and Yao Ababio is appended.

Next IAC Meetings:

02 October 2020

29 January 2021

Senior Design Presentation – Fall:

21 November 2020

Notes From IAC & Student Mixer (31 January 2020)

- A) Opportunity to Interact with Industry Advisory Council and Alumni members with Industry Experience
 - a. More opportunities to pose questions and have discussions
 - b. Students would like to hear and see more examples, cases and experiences of industry processes from Industry Representatives
- B) Students had questions about their particular curriculum relative to other programs
 - a. Several of the IAC members were able to share examples of those differences based on their work and support at other Universities
 - b. Several Students had this question: Does it matter in terms of what program or school one receives their Chem. Eng. degree from?
 - i. Several of the IAC Members shared experiences about entering the work world and being evaluated and putting forth the effort to network and doing the necessary knowledge homework
- C) The Students expressed concern over some of the 'analogies' utilized during one of the class sessions
 - a. Ex. "VOID"
 - i. Some of the students stated that the Analogies are not always relevant to course work
 - b. Some students stated they like and understood the analogies but that they could see how other students may misunderstand them. Other students stated they liked the analogies
- D) Students expressed concerns over receiving Graded Assignments with No Feedback
 - a. No connections with lab; i.e. "No Red Ink on Lab Reports"
 - b. Grading Assignments => no Feedback
 - c. Some of the students said that when feedback is provided it is not structured or formatted so that they could understand errors or mistakes.
- E) Process Dynamics and Controls
 - a. Differences in Teaching Styles
 - i. Students stated that there are differences between Technical and Practical Discrepancy and Application
 - ii. Some professors are a little more complex and comprehensive than others
 - iii. Students claimed a different experience between Dr. Gabitto and Dr. Reeves
 - 1. Claim was that Dr. Reeves prepared students more for Process Dynamics and controls experience and exams
 - 2. Students claim that exams between the two faculty were different
 - a. Further review indicated that both exams were similar
- F) MEB (Material Energy and Balances)
 - a. Students claim success and understanding depends on who the lecturer was

- b. Dr. Kazim is a great teacher and gets the understanding to the students where as others don't.

G) Technical Writing

- a. Course not taught by anyone in Engineering
- b. There are gaps in who teaches this subject. It is taught by the English Department for the under graduate course.
- c. Dr. Martins' Chem. Eng. Lab was the best experience for Writing Technical Reports that the students experienced.

H) ASPEN HYSIS / Process Modeling Chem. Cad

- a. Licensing not available at all times and sometimes it has to be reset for ASPEN HYSIS
- b. Overall great comments for Chem. Cad once everyone understands how to use it

I) Graduate Students and Instruments

- a. Work
 - i. Have to use Chemistry Staff or Chemistry equipment but if Chemistry Students are using the Lab Instruments then students have to watch.
- b. Who is responsible for fixing the Chem Eng Lab Equipment?

J) Collaboration with Industry (Companies)

- a. Students expressed the desire for more tours
- b. Students expressed the desire for more Industry real world exercises
- c. Students stated that there was no liaison (or someone to set up tours) from the PVAMU Chem Eng that is responsible for this assignment. It was however later clarified in the faculty meeting in terms of who the students should work through

Compiled by Michael Washington